MODEL 908300GA
CAPACITY: 1,000 LBS.
GEARED ENGINE STAND

OWNER'S MANUAL

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SPECIFICATIONS

Capacity	1,000 Lbs.
Overall Length	38.58"
Width	35.83"
Height	36"
Shipping Weight	93 lbs.

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WARNING INFORMATION

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

⚠WARNING WARNING: Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

IMPORTANT: READ THESE INSTRUCTIONS BEFORE OPERATING

BEFORE USING THIS DEVICE, READ THIS MANUAL COMPLETELY AND THOROUGHLY, UNDERSTAND ITS OPERATING PROCEDURES, SAFETY WARNINGS AND MAINTENANCE REQUIREMENTS.

It is the responsibility of the owner to make sure all personnel read this manual prior to using the device. It is also the responsiblity of the device owner to keep this manual intact and in a convenient location for all to see and read. If the manual or product labels are lost or not legible, contact Summit for replacements. If the operator is not fluent in English, the product and safety instructions shall be read to and discussed with the operator in the operator's native language by the purchaser/owner or his designee, making sure that the operator comprehends its contents.

THE NATURE OF HAZARDOUS SITUATIONS

⚠WARNING

The use of portable automotive lifting devices is subject to certain hazards that cannot be prevented by mechanical means, but only by the exercise of intelligence, care, and common sense. It is therefore essential to have owners and personnel involved in the use and operation of the equipment who are careful, competent, trained, and qualified in the safe operation of the equipment and its proper use. Examples of hazards are dropping, tipping or slipping of loads caused primarily by improperly securing loads, overloading, off-centered loads, use on other than hard level surfaces, and using equipment for a purpose for which it was not designed.

METHODS TO AVOID HAZARDOUS SITUATIONS

⚠WARNING

- Read, study and understand all instructions before operating.
- Inspect the engine stand before each use. Do not use if damaged, altered, modified, in poor condition, or has loose or missing hardware or components. Take corrective action before using the engine stand.
- Do not use beyond rated capacity.
- Use only on hard level surface capable of supporting the load.
- Make sure all mounting hardware is securely tightened and setup is stable before rotating engine.
- Always use high strength SAE grade 8 bolts for mounting engine to mounting head fingers.
- Make sure widest set of mounting head fingers are nearest the ground when mounting engine to stand.
- Assure the load is centered, balanced and secured to the mounting head and fingers. The engine's weight should be balanced within one inch of the mounting head's rotational axis.
- Never loosen mounting head bolts or engine mounting bolts unless engine is supported by a crane or hoist.
- Only attachments and/or adapters supplied by Summit shall be used.
- Do not use stand or dolly to transport engine.
- Do not crawl under engine or place any part of your body under engine at any time.
- Refer to engine manufacturer's service manual for proper lifting points, mounting points and bolt sizes. Mounting bolts should be torqued at appropriate amount to maintain load.
- This product contains one or more chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. *Wash hands thoroughly after handling.*
- Failure to heed these warnings may result in serious or fatal personal injury and/or property damage.

CONSEQUENCES OF NOT AVOIDING HAZARDOUS SITUATIONS

⚠WARNING

Failure to read this manual completely and thoroughly, failure to understand its OPERATING INSTRUCTIONS, SAFETY WARNINGS, MAINTENANCE INSTRUCTIONS and comply with them, and failure to comply with the METHODS TO AVOID HAZARDOUS SITUATIONS could cause accidents resulting in serious or fatal personal injury and/or property damage.

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SETUP

PLEASE REFER TO THE EXPLODED VIEW DRAWING IN THIS MANUAL IN ORDER TO IDENTIFY PARTS.

1. First, install the casters (5 & 16) to the front and rear axles (2 & 18) using the hardware items 3, 4 & 6, being sure to insert bolts from the bottom side of caster plate. **IMPORTANT: All hardware that assembles items 2, 9, 18, 19 & 27 together should be assembled loose to ensure all bolts fit through their designated holes.**
2. Attach the center beam assembly (9) to the axle assemblies (2 & 18) using hardware items 1, 10, 11 & 17.
3. Next, attach one end of brace (19) to the center beam using hardware items 1, 10, and 11. Make sure position of brace is as shown in diagram.
4. Place post (27) with gear box assembly onto base assembly as follows: Stand the post on the base and attach by passing bolt, item 1, through middle hole in the base bracket and the hex shaped mount welded to the bottom of the post. Then pass pin, item 7, through the upper hole in the base bracket and just in front of the post. Secure pin with clip (8) provided. Now, insert pin, item 7, through the rear hole, including both brackets and secure with clip (8) provided.
5. Attach the end of the brace, item 19, to the post using pin and clip, items 7 & 8.
6. Now tighten all hardware that assembles items 2, 9, 18, 19 and 27 together.
7. Rotate the worm box (29) so its three holes line up with the holes in the post (27) and secure them with the hardware 25 and 26 provided. The worm box (29) should be positioned as shown in the diagram.
8. To fold engine stand, simply remove the three pins and clips, fold brace forward, and then fold post forward. The pins and clips can be stored in open holes.

OPERATING INSTRUCTIONS

This is the safety alert symbol used for the OPERATING INSTRUCTIONS section of this manual to alert you to potential personal injury hazards. Obey all instructions to avoid possible injury or death.

OPERATION:

NOTE: Do not mount engine to mounting plate unless all three pins, item 7, are in place and secured with number 8 clips provided according to the ASSEMBLY INSTRUCTIONS.

1. Consult the vehicle or engine manufacturer for service manuals and or technical bulletins that provide information on suggested engine mounting tips, proper size and type mounting bolts and the engine's center of balance. The engine's center of balance will have to be aligned with the rotational axis of the engine stand's mounting head assembly.
2. Drain oil and coolant and remove clutch bell housing and flywheel from engine before mounting. Attach an engine lifting bar or sling to the engine and secure the bar or sling to a shop crane or hoist. Slowly lift the engine from its compartment making sure no other vehicle components, wires or hoses obstruct the free movement of the engine. Raise the engine high enough so its center of balance is close to the rotational axis of the stand's mounting head.
3. Make sure, the four mounting head fingers are loosely connected to the mounting head plate. Secure the four mounting head fingers to the bell housing end of the engine with the appropriate bolts and washers. Reposition the mounting head, fingers and engine so the engine's center of balance is within one inch of the mounting head's rotational axis. Tighten all bolts to a sufficient torque requirement that prevents any slippage.
4. Slowly lower the crane or hoist so the engine stand supports full weight of the engine. To check engine balance and secure setup of the engine to the stand, slowly rotate the engine by turning the gear crank handle. If balance or setup are not stable, rotate the engine to its original position, raise the crane or hoist so the weight of the engine is removed from the stand and make the correct adjustments. After adjustments are made, tighten all bolts. This adjustment procedure may have to be duplicated several times until correct. After the setup is balanced and secure, the lifting bar or sling can be removed from crane or hoist.
5. To remove the engine from the stand, connect the lifting bar or sling to the crane or hoist and raise the engine high enough to take the weight off the stand. Carefully remove the bolts that connect the four mounting fingers to the engine. Be aware there will be a slight movement of stand as total engine weight is transferred to crane or hoist.
6. This engine stand has a folding feature that can save space or make storage easy. Just remove the three pins (7) and their clips (8) so the brace (19) and post (27) can fit flat on top of the center beam assembly (9). The pins and clips can be stored in the open holes.

PREVENTATIVE MAINTENANCE

This is the safety alert symbol used for the PREVENTATIVE MAINTENANCE section of this manual to alert you to potential personal injury hazards. Obey all instructions to avoid possible injury or death.

1. Always store the engine stand in a well protected area where it will not be exposed to inclement weather, corrosive vapors, abrasive dust, or any other harmful elements. The engine stand must be cleaned of water, snow, sand or grit before using.
2. Lubricate the wheels, casters, zerk fittings, gear and rotating shaft with a general purpose grease.
3. Every engine stand owner is responsible for keeping the engine stand label clean and readable. Use a mild soap solution to wash the external surfaces of the stand. Contact Summit for a replacement label if your stand's label is not readable.
4. Inspect the stand before each use. Do not use the stand if any component is cracked, broken or bent. Do not use the stand if it has loose or missing hardware or components, or is modified in any way. Take corrective action before using the stand again.

LIMITED WARRANTY

SUMMIT RACING WARRANTS TO ITS CUSTOMERS THAT THE COMPANY'S SUMMIT RACING BRANDED PRODUCTS ARE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS.

Summit Racing will repair or replace its Summit Racing branded products which fail to give satisfactory service due to defective workmanship or materials, based upon the terms and conditions of the following described warranty plans attributed to that specific product.

This product carries a ONE-YEAR warranty. During this warranty period, Summit Racing will repair or replace at our option any part or unit which proves to be defective in material or workmanship.

Other important warranty information

This warranty does not cover damage to equipment or tools arising from alteration, abuse, misuse, damage and does not cover any repairs or replacement made by anyone other than Summit Racing or its authorized warranty service centers. The foregoing obligation is Summit Racing sole liability under this or any implied warranty and under no circumstances shall we be liable for any incidental or consequential damages.

NOTE: Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

Return equipment or parts to an authorized service center, transportation prepaid. Be certain to include your name and address, evidence of the purchase date, and description of the suspected defect. If you have any questions about warranty service, please write to Summit Racing. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

Repair kits and replacement parts are available for many of Summit Racing products regardless of whether or not the product is still covered by a warranty plan.

SHIPPING AND MAILING ADDRESS:

Summit Racing
1234 Southeast Avenue
Tallmadge, OH 44278

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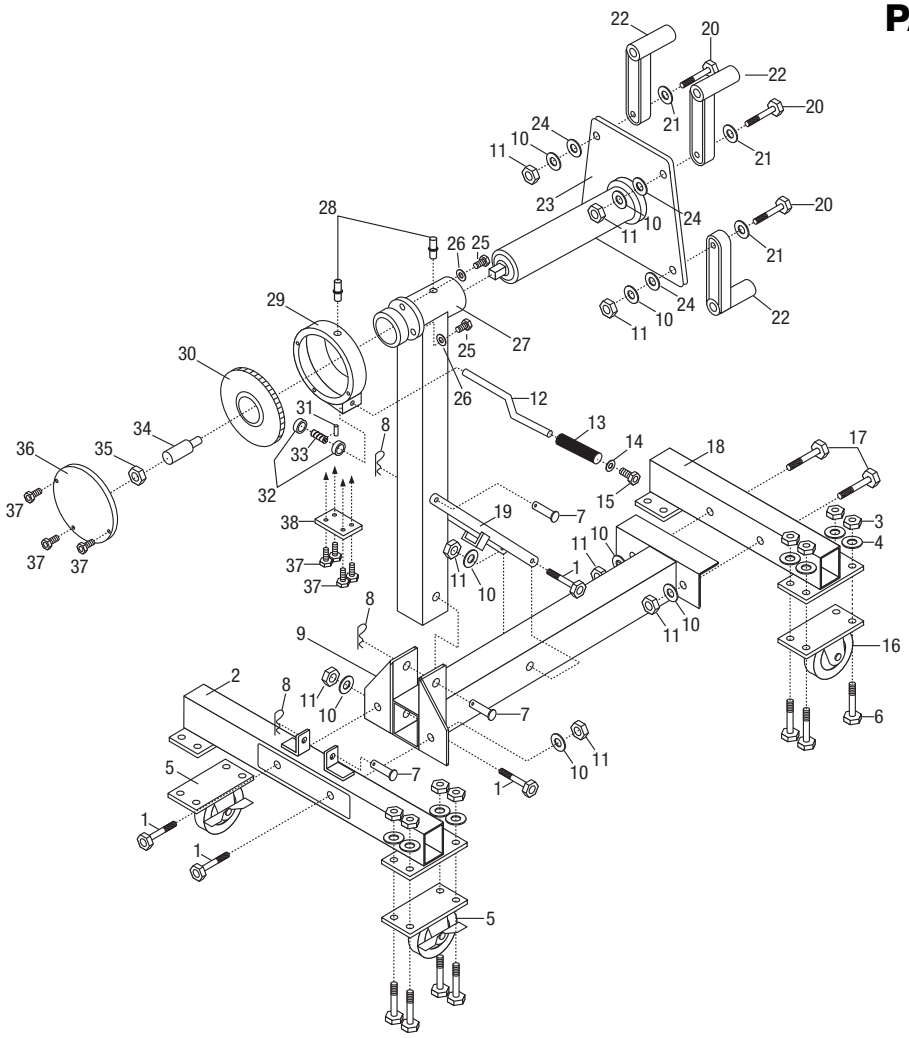
PARTS DRAWING



ITEM NO.	PART NO.	DESCRIPTION	QTY	ITEM NO.	PART NO.	DESCRIPTION	QTY
1	**	Mounting Plate Bolt M12x70	4	21	**	M12 Washer (4mm)	4
2		Rear Axle Assembly	1	22	RS8300G26	Finger	4
3	**	M8 Nyloc Nut	16	23	RS8300GA23BK	Mounting Plate - Shaft Assembly	1
4	**	M8 Washer	16	24	**	12 Lock Washer	4
5	RS8300G16	3.5" Locking Swivel Caster	2	25	**	M8x25 Bolt	3
6	**	M8x20 Allen Head Bolt	16	26	**	M8 Washer	3
7	**	Pin	3	27		Post	1
8	**	Clip	3	28	RS8300GA27	Grease Fitting	2
9		Center Beam Assembly	1	29	*	Worm Box	1
10	**	M12 Washer	10	30	*	Worm Gear	1
11	**	M12 Nut	10	31	*	Pin	1
12	*	Worm Crank	1	32	*	Bearing Assembly	2
13	*	Grip	1	33	*	Worm	1
14	*	M5 Washer	1	34	*	Worm Gear Pin	1
15	*	M5x10 Bolt	1	35	*	M25 Nut	1
16	RS8300G04	3" Fixed Caster	2	36	*	Worm Box Cover (upper)	1
17	**	M12x65 Bolt	2	37	*	M4x6 Bolt	7
18		Front Axle Assembly	1	38	*	Worm Box Cover (lower)	1
19	RS8300GA19BK	Brace	1	39	RS8300GALK	Product Label Kit (not shown)	1
20	**	Mounting Plate Bolt M12x60	4				

* Available only in worm box assembly, part #RS8300GAWBBK
** Available only in bolt kit, part #RS8300GABK
Only items identified by part number are available separately.